

Title (en)
System and method for collaborative navigation

Title (de)
System und Verfahren zur kollaborativen Navigation

Title (fr)
Procédé et système pour la navigation collaborative

Publication
EP 2244063 A3 20130116 (EN)

Application
EP 10159573 A 20100409

Priority
US 42835809 A 20090422

Abstract (en)
[origin: EP2244063A2] A system and method for collaborative navigation is provided. The system comprises a first mobile unit, at least one inertial measurement unit on the first mobile unit, and at least one environment sensor on the first mobile unit. A navigator module in the first mobile unit is configured to receive inertial data from the inertial measurement unit. An object characterization module is configured to receive sensor data from the environment sensor and a navigation solution from the navigator module. A common object geo-locator module is configured to receive a first set of descriptors from the object characterization module and a second set of descriptors from another mobile unit. A data association module is configured to receive common descriptors from the common object geo-locator module. The first mobile unit is configured to operatively communicate with one or more additional mobile units that are configured for collaborative navigation with the first mobile unit.

IPC 8 full level
G01C 21/16 (2006.01); **G01C 21/28** (2006.01); **G01S 5/16** (2006.01)

CPC (source: EP US)
G01C 21/1652 (2020.08 - EP US); **G01C 21/1656** (2020.08 - EP US); **G01C 21/28** (2013.01 - EP US); **G01S 5/0072** (2013.01 - EP US); **G01S 5/16** (2013.01 - EP US); **G01S 19/47** (2013.01 - EP US)

Citation (search report)
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA ME RS

DOCDB simple family (publication)
EP 2244063 A2 20101027; EP 2244063 A3 20130116; EP 2244063 B1 20140604; EP 2749842 A1 20140702; EP 2749842 B1 20160727; IL 205074 A0 20101130; US 2010274481 A1 20101028; US 9068847 B2 20150630

DOCDB simple family (application)
EP 10159573 A 20100409; EP 14161305 A 20100409; IL 20507410 A 20100414; US 42835809 A 20090422